

# SEQUENCE LISTING

<110> Clark, Geoff

Ellis, Chad

Vos, Michelle

<120> Rig: Novel Ras-Related Gene

<130> NIH-05080

<160> 15

<170> PatentIn version 3.0

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<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> SITE

<222> (4)..(4)

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<400> 1

Cys Ala Ala Xaa

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<210> 2

<211> 33

<212> DNA

<213> Artificial Sequence

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33

<210> 3

<211> 31

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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 3

gcggaattct cacatgaggg tgcatttgcc c

31

<210> 4

<211> 597

<212> DNA

<213> Homo sapiens

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agctcgctgg tgctgcgctt cgtgaagggc acgttccgcg acacctacat cccaccatc 120

gaggacacct accggcaggt gatcagctgc gacaagagcg tgtgcacgct gcagatcaca 180

gacaccaccg gcagccacca gttcccggcc atgcagcgcc tgtccatctc caagggccac 240

gccttcatcc tgggtgttctc cgtcaccagc aagcagtcgc tggaggagct ggggcccac 300

tacaagctca tcgtgcagat caagggcagc gtggaggaca tccccgtgat gctcgtgggc 360

aacaagtgcg atgagacgca gcgggaggtg gacacgcgcg aggcgcaggg ggtggcccaa 420

gagtgggaagt gcgctttcat ggagacctcg gccaagatga actacaacgt caaggagctc 480

ttccaggagc tgctgacgct ggagacgcgc cggaacatga gcctcaacat cgacggcaag 540

cgctccggga agcagaagag gacagaccgc gtcaagggca aatgcaccct catgtga 597

<210> 5

<211> 198

<212> PRT

<213> Homo sapiens

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Met Pro Glu Gln Ser Asn Asp Tyr Arg Val Val Val Phe Gly Ala Gly  
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Gly Val Gly Lys Ser Ser Leu Val Leu Arg Phe Val Lys Gly Thr Phe  
20 25 30

Arg Asp Thr Tyr Ile Pro Thr Ile Glu Asp Thr Tyr Arg Gln Val Ile  
35 40 45

Ser Cys Asp Lys Ser Val Cys Thr Leu Gln Ile Thr Asp Thr Thr Gly  
 50 55 60  
 Ser His Gln Phe Pro Ala Met Gln Arg Leu Ser Ile Ser Lys Gly His  
 65 70 75 80  
 Ala Phe Ile Leu Val Phe Ser Val Thr Ser Lys Gln Ser Leu Glu Glu  
 85 90 95  
 Leu Gly Pro Ile Tyr Lys Leu Ile Val Gln Ile Lys Gly Ser Val Glu  
 100 105 110  
 Asp Ile Pro Val Met Leu Val Gly Asn Lys Cys Asp Glu Thr Gln Arg  
 115 120 125  
 Glu Val Asp Thr Arg Glu Ala Gln Ala Val Ala Gln Glu Trp Lys Cys  
 130 135 140  
 Ala Phe Met Glu Thr Ser Ala Lys Met Asn Tyr Asn Val Lys Glu Leu  
 145 150 155 160  
 Phe Gln Glu Leu Leu Thr Leu Glu Thr Arg Arg Asn Met Ser Leu Asn  
 165 170 175  
 Ile Asp Gly Lys Arg Ser Gly Lys Gln Lys Arg Thr Asp Arg Val Lys  
 180 185 190  
 Gly Lys Cys Thr Leu Met  
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<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 6

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21

<210> 7

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 7

ccagcgagtt cttgcccacg c

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<210> 8

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic

<400> 8

Leu Asn Ile Asp Gly Lys Arg Ser Gly Lys Gln Lys Arg Thr Asp Arg  
1 5 10 15

Val Lys Gly Lys  
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<210> 9

<211> 229

<212> PRT

<213> Homo sapiens

<400> 9

Met Gly Asn Ala Ser Phe Gly Ser Lys Glu Gln Lys Leu Leu Lys Arg  
1 5 10 15

Leu Arg Leu Leu Pro Ala Leu Leu Ile Leu Arg Ala Phe Lys Pro His  
20 25 30

Arg Lys Ile Arg Asp Tyr Arg Val Val Val Val Gly Thr Ala Gly Val  
35 40 45

Gly Lys Ser Thr Leu Leu His Lys Trp Ala Ser Gly Asn Phe Arg His  
50 55 60

Glu Tyr Leu Pro Thr Ile Glu Asn Thr Tyr Cys Gln Leu Leu Gly Cys  
65 70 75 80

Ser His Gly Val Leu Ser Leu His Ile Thr Asp Ser Lys Ser Gly Asp  
85 90 95

Gly Asn Arg Ala Leu Gln Arg His Val Ile Ala Arg Gly His Ala Phe  
100 105 110

Val Leu Val Tyr Ser Val Thr Lys Lys Glu Thr Leu Glu Glu Leu Lys  
115 120 125

Ala Phe Tyr Glu Leu Ile Cys Lys Ile Lys Gly Asn Asn Leu His Lys  
130 135 140

Phe Pro Ile Val Leu Val Gly Asn Lys Ser Asp Asp Thr His Arg Glu  
145 150 155 160

Val Ala Leu Asn Asp Gly Ala Thr Cys Ala Met Glu Trp Asn Cys Ala  
165 170 175

Phe Met Glu Ile Ser Ala Lys Thr Asp Val Asn Val Gln Glu Leu Phe  
180 185 190

His Met Leu Leu Asn Tyr Lys Lys Lys Pro Thr Thr Gly Leu Gln Glu  
195 200 205

Pro Glu Lys Lys Ser Gln Met Pro Asn Thr Thr Glu Lys Leu Leu Asp  
210 215 220

Lys Cys Ile Ile Met  
225

<210> 10

<211> 206

<212> PRT

<213> Homo sapiens

<400> 10

Met Ala Ala Asn Lys Pro Lys Gly Gln Asn Ser Leu Ala Leu His Lys  
1 5 10 15

Val Ile Met Val Gly Ser Gly Gly Val Gly Lys Ser Ala Leu Thr Leu  
20 25 30

Gln Phe Met Tyr Asp Glu Phe Val Glu Asp Tyr Glu Pro Thr Lys Ala  
35 40 45

Asp Ser Tyr Arg Lys Lys Val Val Leu Asp Gly Glu Glu Val Gln Ile  
50 55 60

Asp Ile Leu Asp Thr Ala Gly Gln Glu Asp Tyr Ala Ala Ile Arg Asp  
65 70 75 80

Asn Tyr Phe Arg Ser Gly Glu Gly Phe Leu Cys Val Phe Ser Ile Thr  
85 90 95

Glu Met Glu Ser Phe Ala Ala Thr Ala Asp Phe Arg Glu Gln Ile Leu  
100 105 110

Arg Val Lys Glu Asp Glu Asn Val Pro Phe Leu Leu Val Gly Asn Lys  
115 120 125

Ser Asp Leu Glu Asp Lys Arg Gln Val Ser Val Glu Glu Ala Lys Asn  
130 135 140

Arg Ala Glu Gln Trp Asn Val Asn Tyr Val Glu Thr Ser Ala Lys Thr  
145 150 155 160

Arg Ala Asn Val Asp Lys Val Phe Phe Asp Leu Met Arg Glu Ile Arg  
165 170 175

Ala Arg Lys Met Glu Asp Ser Lys Glu Lys Asn Gly Lys Lys Lys Arg  
180 185 190

Lys Ser Leu Ala Lys Arg Ile Arg Glu Arg Cys Cys Ile Leu  
195 200 205

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<210> 11

<211> 184

<212> PRT

<213> Homo sapiens

<400> 11

Met Arg Glu Tyr Lys Leu Val Val Leu Gly Ser Gly Gly Val Gly Lys  
1 5 10 15

Ser Ala Leu Thr Val Gln Phe Val Gln Gly Ile Phe Val Glu Lys Tyr  
20 25 30

Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Glu Val Asp Cys  
35 40 45

Gln Gln Cys Met Leu Glu Ile Leu Asp Thr Ala Gly Thr Glu Gln Phe  
50 55 60

Thr Ala Met Arg Asp Leu Tyr Met Lys Asn Gly Gln Gly Phe Ala Leu  
65 70 75 80

Val Tyr Ser Ile Thr Ala Gln Ser Thr Phe Asn Asp Leu Gln Asp Leu  
85 90 95

Arg Glu Gln Ile Leu Arg Val Lys Asp Thr Glu Asp Val Pro Met Ile  
100 105 110

Leu Val Gly Asn Lys Cys Asp Leu Glu Asp Glu Arg Val Val Gly Lys  
115 120 125

Glu Gln Gly Gln Asn Leu Ala Arg Gln Trp Cys Asn Cys Ala Phe Leu  
130 135 140

Glu Ser Ser Ala Lys Ser Lys Ile Asn Val Asn Glu Ile Phe Tyr Asp  
145 150 155 160

Leu Val Arg Gln Ile Asn Arg Lys Thr Pro Val Glu Lys Lys Lys Pro  
165 170 175

Lys Lys Lys Ser Cys Leu Leu Leu  
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<210> 12

<211> 183

<212> PRT

<213> Homo sapiens

<400> 12

Met Arg Glu Tyr Lys Val Val Val Leu Gly Ser Gly Gly Val Gly Lys  
1 5 10 15

Ser Ala Leu Thr Val Gln Phe Val Thr Gly Thr Phe Ile Glu Lys Tyr  
20 25 30



Leu Val Gly Asn Lys Cys Asp Leu Ala Ala Arg Thr Val Glu Ser Arg  
 115 120 125  
 Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Tyr Ile Glu Thr  
 130 135 140  
 Ser Ala Lys Thr Arg Gln Gly Val Glu Asp Ala Phe Tyr Thr Leu Val  
 145 150 155 160  
 Arg Glu Ile Arg Gln His Lys Leu Arg Lys Leu Asn Pro Pro Asp Glu  
 165 170 175  
 Ser Gly Pro Gly Cys Met Ser Cys Lys Cys Val Leu Ser  
 180 185

<210> 14

<211> 218

<212> PRT

<213> Homo sapiens

<400> 14

Met Ser Ser Gly Ala Ala Ser Gly Thr Gly Arg Gly Arg Pro Arg Gly  
 1 5 10  
 Gly Gly Pro Gly Pro Gly Asp Pro Pro Pro Ser Glu Thr His Lys Leu  
 20 25 30  
 Val Val Val Gly Gly Gly Gly Val Gly Lys Ser Ala Leu Thr Ile Gln  
 35 40 45  
 Phe Ile Gln Ser Tyr Phe Val Ser Asp Tyr Asp Pro Thr Ile Glu Asp  
 50 55 60  
 Ser Tyr Thr Lys Ile Cys Ser Val Asp Gly Ile Pro Ala Arg Leu Asp  
 65 70 75 80  
 Ile Leu Asp Thr Ala Gly Gln Glu Glu Phe Gly Ala Met Arg Glu Gln  
 85 90 95  
 Tyr Met Arg Ala Gly His Gly Phe Leu Leu Val Phe Ala Ile Asn Asp  
 100 105 110  
 Arg Gln Ser Phe Asn Glu Val Gly Lys Leu Phe Thr Gln Ile Leu Arg  
 115 120 125  
 Val Lys Asp Arg Asp Asp Phe Pro Val Val Leu Val Gly Asn Lys Ala  
 130 135 140  
 Asp Leu Glu Ser Gln Arg Gln Val Pro Arg Ser Glu Ala Ser Ala Phe  
 145 150 155 160  
 Gly Ala Ser His His Val Ala Tyr Phe Glu Ala Ser Ala Lys Leu Arg  
 165 170 175



